

B-1 RUBBER PIPE Specification #RV-B-1

PART 1 GENERAL

1.01 SUBMITTALS

- A. Supplier shall submit product literature that includes information on the performance and operation of the pipe, materials of construction, dimensions and weights, elastomer characteristics, and pressure ratings.
- B. Upon request, provide shop drawings that clearly identify the pipe dimensions including all supplied accessories.

1.02 QUALITY ASSURANCE

- A. Supplier shall have at least ten (10) years experience in the manufacture of rubber pipe, and shall provide references and a list of installations upon request.

PART 2 PRODUCTS

2.01 RUBBER PIPE

- A. The Rubber Pipe shall consist of an elastomer inner tube, a fabric reinforced body section with a helical wire reinforcement imbedded in the body from flange to flange along with woven wire imbedded laterally. The vibration pipe shall be covered with a synthetic rubber cover stock for protection against abrasion and gouging. Special covers shall be applied as specified on the purchase order.
- B. The temperature and chemical compatibility requirements specified in the purchase order shall determine the elastomer and fabric materials.

Class I - to 180° F: PGR, Neoprene, Hypalon, or Buna-N with Nylon or Polyester reinforcement.
Class II - to 250° F: Chlorobutyl, EPDM with polyester reinforcement.
Class III - to 400° F: Solid Viton®, with Kevlar® reinforcement.
- C. Rubber Pipe shall be designed to be available for 25, 50, 75, 100, 150, and 250-psi service. Flanges shall be constructed integrally with the body to reduce stresses. Flanges shall be full flat-faced rubber so that gaskets are not necessary. Flanges shall be ANSI Class 125# /150# standard drilling or as specified in the purchase order. The Vibration Pipe shall be rated at 30" Hg vacuum.
- D. For lower pressure service in smaller sizes rubber pipe may also be furnished with slip-on enlarged ends up to 6" I.D. size for discharge pressure to 50 psi. There shall be no limitations on straight or enlarged ends for any pipe size if used for vacuum service to 30" Hg vacuum.
- E. Control units shall be specified if the pipeline is not anchored to eliminate excessive elongation of the rubber pipe. Pipe shall be manufactured in the USA.

2.02 FUNCTION

- A. The elastomer construction of the pipe acts to absorb vibration, preventing it from being transmitted to the piping, as well as compensating for lateral deflection and absorbing shock from water hammer. The flexible pipe can be bent to a specified radius, determined by length, and the elastomer offers superior abrasion resistance to alloy pipe.

2.03 MANUFACTURER

- A. All Rubber Pipe shall be Redflex™ Series B-1 as manufactured by the Red Valve Company, Inc. of Carnegie, PA 15106, USA, or approved equal.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Pipe shall be installed in accordance with manufacturer's written Installation and Operation Manual and approved submittals.

3.02 MANUFACTURER'S CUSTOMER SERVICE

- A. Manufacturer's authorized representative shall be available for customer service during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the pipe.
- B. Manufacturer shall also make customer service available directly from the factory in addition to authorized representatives for assistance during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the pipe.